

**Table 3.** Serum insulin, glucose, glucose and insulin under the curve and insulin resistance index in offspring of DM2 parents (group I) and control subjects (group II) during an oral glucose challenge (mean $\pm$ SD)

|                           | Group I |        | Group II |       |   | P value (Anova) |
|---------------------------|---------|--------|----------|-------|---|-----------------|
|                           | mean    | s.d.*  | mean     | s.d.* |   |                 |
| Number (n)                | 41      |        | 49       |       |   |                 |
| Glucose (mmol/l)          |         |        |          |       |   |                 |
| Fasting                   | 4.53    | 0.62   | 4.26     | 0.56  | } | NS              |
| 30 min                    | 8.4     | 2.0    | 8.3      | 1.5   |   |                 |
| 60 min                    | 8.4     | 3.0    | 8.9      | 2.5   |   |                 |
| 120 min                   | 5.4     | 1.3    | 5.6      | 5.6   |   |                 |
| AUC glucose (mmol/l)      | 14.4    | 3.7    | 14.6     | 2.8   |   | NS              |
| Insulin ( $\mu$ U/ml)     |         |        |          |       |   |                 |
| Fasting                   | 14.0    | 6.4    | 8.6      | 3.2   | } | p = 0.026       |
|                           | (5-36)  | (3-17) |          |       |   |                 |
| 30 min                    | 122.2   | 94.3   | 81.7     | 50.6  |   |                 |
| 60 min                    | 134.4   | 103.1  | 99.9     | 48.9  |   |                 |
| 120 min                   | 76.9    | 81.0   | 70.5     | 40.7  |   |                 |
| AUC insulin ( $\mu$ U/ml) | 205     | 141    | 153      | 63    |   | < 0.05          |
| HOMA-IRI                  | 2.84    | 1.39   | 1.67     | 0.77  |   | < 0.001         |

AUC: area under the curve

HOMA IRI: Insulin resistance index. Homeostasis model assessment of insulin resistance<sup>16-18</sup>